CLAIMS

1. A polyethersilicone represented by the following formula (1), said polyethersilicone being modified at an end of a silicone chain thereof,

$$(CH_{3})_{3-x} - S i O (S i O)_{n} S i - (CH_{3})_{3-y}$$

$$(CH_{3})_{3-x} - S i O (S i O)_{n} S i - (CH_{3})_{3-y}$$

$$(1)_{CH_{3}}$$

wherein A represents a polyether residue, n is an integer of from 0 to 3, x is 0 or 1, y is 0 or 1 and $1 \le x+y$, characterized in that a weight ratio, determined by H-NMR, of a polyether which is not bonded to a silicone chain of the polyether silicone to a total of the non-bonded polyether and the polyether residue bonded to the silicone chain of the polyethersilicone is 8 % or less.

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- 2. The polyethersilicone according to claim 1, wherein at least one A is
 - $-C_aH_{2a}O(C_2H_4O)_bR$,

wherein a is 3 or 4, b is an integer of from 1 to 3, and R is a CH_3 group or a C_2H_5 group.

- 3. The polyethersilicone according to claim 1, wherein at least one $\mbox{\mbox{\bf A}}$ is
 - $-CH_2CH(CH_3)CH_2O(C_2H_4O)_cR$
- wherein c is an integer of from 1 to 6, and R is a CH_3 group or a C_2H_5 group.
- 4. The polyethersilicone according to any one of claims 1 to 3, wherein the polyethersilicone has a viscosity at 25 degrees C of from 1 to 25 20 mm²/s.

- 5. The polyethersilicone according to claim 1, wherein the polyethersilicone is one prepared by reacting a polyether having a methallyl group, a butenyl group or an allyl group at an end thereof with a hydrogensilicone having a hydrosilyl group at least one end thereof in the presence of a noble metal catalyst.
- 6. A solvent for an electrolytic solution, comprising the polyethersilicone according to any one of claims 1,2,3 and 5.
- 7. A method of preparing a polyethersilicone by reacting a polyether having an unsaturated bond at an end thereof with a hydrogensilicone in the presence of a noble metal catalyst, characterized in that the method comprising the steps of:

reacting a polyether represented by the following formula (3) or (4) with a hydrogensilicone,

$$C_a H_{2a-1} O (C_2 H_4 O)_b R$$
 (3)

wherein a is 3 or 4, b is an integer of from 1 to 3, and R is a CH_3 group or a C_2H_5 group,

$$CH_3$$
|
 CH_2 = CCH_2O (C_2H_4O) R (4)

wherein c is an integer of from 1 to 6, and R is a CH_3 group or a C_2H_5 group, and

subjecting the reaction mixture to vacuum distillation,

to thereby attain a weight ratio, determined by H-NMR, of the polyether which has not been reacted with the hydrogensilicone to the starting polyether of 8 % or less.

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15